

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: bratcher@mercury.netropolis.net (Robert M. Bratcher Jr.)  
Subject: 6L6's & guitar amps  
Message-ID: <199508281620.LAA20127@uro.theporch.com>

>  
>6L6s-- One reason audiophiles (and the next rung down the evolutionary ladder,  
>guitar players) don't want metal 6L6s is that in MANY cases of equipment  
>built with 6L6s, pin #1 is used as a tie point. This pin is NC in glass tubes  
>but it is hooked to the metal in metal 6L6s!!!  
>  
>Hate to see a fellow BA'er fry his butt while plugging in a metal 6L6 into  
>a device with B+ on pin 1. . . "Haa, Haaa, Haaaa! Durn audiophiles say you  
>can't. . . BZZT!!!" Think and read your Pindex or sign up with the Widow's  
>Assistance Program down at the club.  
Oh yes, I remember replacing the 6L6WGB's with old style 6L6G's and blowing  
the fuze when the amp was switched on! Thought it was the same tube only  
bigger.

Robert M. Bratcher Jr.  
E-mail to:  
bratcher@netropolis.net  
or,  
robert2039@aol.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Scott\_Johnson-AZAX60@email.sps.mot.com  
Subject: RE>6L6's & guitar amps  
Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

RE>6L6's & guitar amps 8/28/95  
Seriusly, you all know that the GC is a much more capable tube than the straight  
6L6, with 450 vs. 360 plate volts, and more plate dissipation. A metal 6L6 will  
distort noticeably (even to my turbine damaged ears) in an amp designed to use  
GC's or 5881's.  
'Course, guitar amps are not high fidelity, on the contrary, they are regularly  
driven compressed and clipped like a big dog. Metal jugs will not live, so be  
happy they're available for your two-tube transmitter projects!

73, Scott

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>  
Subject: A 6EV7 that isn't  
Message-ID: <31382.owen@apollo.eeel.nist.gov>

Over the past year the relay control of my Drake T4XC has become a bit flakey. I decided it was time to invest in a new 6EV7. Since they are not all that common I bought a new one from AES. It was immediately apparent that the new and old were different. The old one, an RCA, is in a tall fat bulb like a 6CL6; and the new one, an international servicemaster made in japan is in a median Fat Bulb like a 12AX7. In the RCA the structure is about 1" long, in the new it's about 1/2" long. Running both through my Jackson Gm tester that reads percent of normal Gm, the RCA tested good at 70-80%. The new one pegged the meter hard at 130%+++++. But---the most telling test was in the transmitter. The new tube DOESN'T work. While the relay pulls in OK, on CW if the key is held down about 5 seconds the relay drops out. The CW sidetone doesn't work and for some reason there is no output on the tune position. Putting the old RCA back in everything is OK. Anyone care to venture a guess what mismarked tube I have?

73 Jim K4CGY

James C. Owen, III  
National Institute of Standards & Technology (NIST)  
Bldg 225/B360  
Gaithersburg, MD 20899  
1-301-975-5623

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>  
Subject: Re: A 6EV7 that isn't  
Message-ID: <46216.owen@apollo.eeel.nist.gov>

In message Mon, 28 Aug 1995 12:34:19 -0400, KE8NEfix@aol.com writes:

> Hi Jim,  
>  
> I don't have to guess about your problem. International servicemaster tubes are best inserted to the round file as soon as they are removed from the box. I would guess that 50% of the International tubes that I run into in radios that I repair for people do not work right. They are a cheap Jap import and probably the main reason that AES will no longer purchase anything that is not US or Western European Built.  
> Oh, by the way, they wouldn't take the tube back either.

Thanks for the info. KIM. I called AES, told them the problem and they said that they would send a replacement RCA-GE-Sylvania at no cost, priority mail and to destroy the servicemaster tube. I don't think that I could ask for any more than that.

By the way, you didn't really say what the problem was.  
Can you elaborate on that? Maybe I can help..

The T4XC has what you might call a "sticky relay". That is when you turn the rig on and sometimes when operating there is no RF to the receiver until you click the PTT line once and then everything is fine. It's like the antenna relay contacts are open. If the transmitter is turned off everything is fine it's mainly while its warming up. Maybe some leakage current through the tube that partly pulls the relay in? Anyway I thought replaceing the tube might be the first step.

73 Jim K4CGY

James C. Owen, III

National Institute of Standards & Technology (NIST)

Bldg 225/B360

Gaithersburg, MD 20899

1-301-975-5623

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: Gary Gitzen <garyg@cup.hp.com>

Subject: Re: A 6EV7 that isn't

Message-ID: <199508281737.AA176601437@hpxsvr.cup.hp.com>

Jim Owen wrote:

>The T4XC has what you might call a "sticky relay". That is when you turn  
>the rig on and sometimes when operating there is no RF to the receiver until  
>you click the PTT line once and then everything is fine.

> .....

> Maybe some leakage

>current through the tube that partly pulls the relay in?

Years ago in the U.S. Air Farce I ran into a relay control triode which totally lost grid control. I read later that it is not uncommon for tubes in relay control situations to have this problem. If I remember correctly, the tube was "on" all the time, and even high negative bias would not turn it off. So this may be your problem.

Hope this helps.

Gary

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: clarke@acme.ist.ucf.edu (Thomas Clarke)

Subject: Also Seeking Command Xmtr

Message-ID: <m0sn8R1-0006WtC@next1.acme.ist.ucf.edu>

Since a lot of this seems to be going around, I would also like a parts command transmitter: any freq range. What I need mostly is the variable inductor.

Tom Clarke  
KE4VFH  
Orlando, Florida

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: n5off@w5ddl.aara.org  
Subject: BA Spot, "Gray Lady Down"  
Message-ID: <165445@w5ddl.aara.org>

I was watching a submarine movie last night on one of those "T" networks. It was about a sub that was struck by a freighter and sank to 1400' or so.

Anyway, in the shot of the radio room gushing full of water there was a shot of a Collins transmitter that looked sort of like the 51J-4 family of boxes, but it had a light blue panel.

Did anyone else see this, or can you identify it?

There were many more rack handles shot from the sides, but no positive ID.

73 de tom

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: "R. Dennis Gibbs" <dgibbs@Rational.COM>  
Subject: Beckman model 905 WWV Rcvr  
Message-ID: <Chameleon.4.01.950828130646.dgibbs@>

Greetings all,

Does anyone out there have a schematic/service manual/operating manual for a Beckman model 905 WWV receiver? This is a unit that has crystal controlled WWV reception. It has about 13 tubes in it.

Regards,

Dennis Gibbs  
dgibbs@rational.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: bill@texan.frc0.com (William Hawkins)  
Subject: Re: Beckman model 905 WWV Rcvr  
Message-ID: <9508282159.AA00130@texan.frc0.com>

Hi Dennis,

I have one of those things, in pieces being rebuilt verrrry slowly. In the past, the grid blocking capacitor on the 6AQ5 leaked enough for it to smoke the output transformer, so cleanup has been slow.

Got a copy of the manual from Roy Morgan. Would be glad to make a copy of it for you. Trade it for a couple of 2 watt carbon resistors if they're handy, or nothin' if they're not.

Bill

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: bill@texan.frc0.com (William Hawkins)  
Subject: Re: Boat Anchors  
Message-ID: <9508280513.AA29428@texan.frc0.com>

Um, did you read any of the list before posting? Is this one of the greatest put-ons of all time?

Just in case you are innocent, boatanchors refers to heavy electronic gear. This is almost always vacuum tube gear, because tubes are so inefficient that they require many pounds of transformers to supply their insatiable need for energy. Not to mention the chassis size required to hold the heat dissipation to reasonable levels.

You have appeared here during troubled times. Folks who sought to recirculate tube gear at low prices find themselves in competition with folks for whom price is no object when it comes to tubes. Ah, well, we said, at least the chassis of old tube gear will be available for study. Now you come along and show that price is no object for something heavy enough to anchor a boat. We're doomed.

Forget about boatanchors, and buy a nice mushroom or Admiralty anchor with loose flukes.

: - ) : ^ ] 8 - >

Bill Hawkins bill@bvc.frc0.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: Comments about audiophiles  
Message-ID: <199508281441.KAA12154@cc01du.unity.ncsu.edu>

>  
> A few months back, I posted a brief plea for peace and simple, courteous  
> respect or at least tolerance for the many people who happen to like  
> audio systems -- the same as I would expect on behalf of any other race,  
> creed, or community.

That is fine. We are all tolerant of them, although we do point a few jokes at them if they scrap gear just pull a few dual-triode tubes that abound like fleas on a dog at any hamfest. That is a high shade of, shall we say, lesser quantities of grey matters being exhibited for the price of a few common tubies.

One should not forget that the residual chassis, especially for a hefty o'scope that was mentioned in particular, has numerous fine parts for any self-respecting Boatanchorite's junque box. To just pull a few tubes (especially very common ones) and junk the rest WITHOUT cannibalizing the parts for the junque box or passing the parts around for others to use is sacrilege.

I will take the heat for one post on that topic.

> Although I received many messages of support, apparently I asked too  
> much. In the past week, many thoughtless, scornful, pointed comments  
> about audiophiles have flooded this list. I really don't understand the  
> vehemence I seem to be hearing, and I'm very surprised and disappointed  
> by it.

Don't be. If a Boatanchorite did the same thing, we would probably be a bit concerned about where his priorities were, too. At least give the chassis away to a kid that would love to take the screwdrivers and nippers thereto, and maybe get some hands-on learnin' thereby. Or, give the chassis away to a Boatanchorite who WILL go to the trouble to properly dismantle it for usable parts. The shafts and shaft couplings alone would make several shack projects possible. The knobs would be useful for several projects. The power transformer would power a good 75-100 watt sized transmitter project..... etc.

> I love boatanchors, but I'm getting a pretty uncomfortable feeling: I'm  
> not terribly proud to be part of this community right now. And I don't  
> believe it does our reputation any good to sling mud at any other group.

We all have a fondness for the boatanchors or we would not be here. Stoopidity needs a bit of gentle guidance from others, regardless of who has the dunce cap on that particular day. All of us wear the dunce cap now and again, myself included. But, there is much to be learned from such an eminent audience as partakes of the BA list. When the dunce cap is being worn and tubes being yanked from a BA just for the sake of a few tubes of rather common type, and the rest just trashed, then I still must maintain that either 1) the person was not properly elmered or 2) the person was ignorant) or 3) the person was just plain stoopid.

I am very curious why audiophiles have been so big on non-manufactured tube types such as the 211's, 801's, 6B4Gs, etc., rather than using an available tube such as the well proven 6L6G, 811/812 or even the 833. It is purely perk, and a way to drive the economics. To me, that is still a bit of the ol' stupidity/greed showing. For some particular audiophiles of this ilk, who are commercial tube amp manufacturers, I keep running into these folks at the hamfests, always one step ahead of me chasing NIB 211's etc. They are in it for the buck and not the boatanchor. That still gets my gut slightly. I am glad they don't need '01's as preamps.

> So, of course I can always exercise my right to unsubscribe to the list.  
> This would be too bad. I thought our hearts were warmed and cheered in  
> mutual friendship by the glowing firebottles, but such is apparently no  
> longer the case. How depressing. This list is beginning to behave more  
> like a newsgroup.

You could, but you would be passing a wealth of shared experience by. My heart is still cheered by a warm '01 glowing on a breadboard in the wee small hours, nurturing the crackle and din of 200 meters and down. But, I will ride tropical storm Felix out and see the next sunrise.

> I will hang around a while longer to see if things lighten up, but I'm  
> not optimistic. And I recognize that some people might not be at all  
> unhappy to see an audiophile/boatanchorite leave the list. Oh, well.  
>  
> -David.

If any of my comments, perchance, were responsible for your feelings, I would offer my humble apologies. But I must stand firm that the use of 211's in big amps for the perk of it or the trashing of Boatanchors just for a few common tubes, is just plain stoopid.

73/Bob/NA4G

p.s. and for the comments about 211's without getters, you need to go

back before the standard VT-4C design to find those. Also, it is quite interesting to see the variation in getter chemistry, as shown in the many different colors the early tubes exhibited when gettered. They are red, green, gold, amber, in addition to the common silver of the VT-4C, and the clear of ungettered ones.

p.p.s. and for the comments about 6L6's with pin 1 tied hot --- I always check the underside to make sure some mean trick like that has not been played out. Proper RF design dictates that the shielding be grounded. At audio, cheapness dictated the use of the terminal for tie point use, and that is scary if the plate was tied there.

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Crosley 146 CS Phono/Radio ?'s

Message-ID: <9508281541.AA26902@bock.ih.att.com>

With my ref books all at home, I'd have to guess that this is a late-30s or '40s vintage floor model. It hurts to say it, but "collector" values of console stuff in general are low compared to table models, and having a phono built in seems to \*decrease\* the value of a piece. Probably cuz the rubber wheels and cartridge pickups are usually shot.

Now if the record changer and pickup actually \*work\* and the cabinet is nice, maybe it is worth over \$100. Personally , I like something to play late 78s on and would like to have a working radio-phono (I have a few that need some, uh, TLC in the phono dept.).

Crosley brand is funny re rpices. Early 1920s battery Crosleys with front panel binding posts are really valuable, like \$150 for a one-tube regen. As tehy get newer, they drop rapidly in value.

BTW, a local antique shop has a 1942 Philco console R/P for \$175. Dirty but complete and would clean up nicely. It's the innovative, unique Beam-o-Lite pickup system, with one of Philco's finest post-1938 SW/BC radios. When I mentioned to some folks at Elgin Radiofest that this was going for \$175, they just laughed at the high price. Too bad. Maybe someday when 99.9% of the R/Ps have gone to landfill, the few left will be worth beeeg bucks. Eat right, exercise often, maybe you'll live to see it ..... 73, mike k

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: maccary@on-ramp.ior.com

Subject: Dead Tek 454 O'scope

Message-ID: <m0smvxY-000RndC@on-ramp.ior.com>

My good old Tektronics 454 went belly up a few days ago with no sweep. The sweep comes up when first turned on but after a minute or so it becomes unstable and then quits. This is a hybrid design with 6 high mu triodes and lots of transistors. I checked the nuvistors in both sweep channels (A and B, the delayed sweep) and they seem OK. I put an external trigger sig into both sweep channels but ND. I wonder about the sweep pickoff transistor in the vertical channel 1?

Any ideas out in boatanchor world would be appreciated before I begin a point to point resistance and voltage check on this not so big anchor, but pretty heavy for a supposed portable scope.

Thanks,

Mac W0NAX

Lawrence M. MacCary --- A Subscriber at Internet On-Ramp, Inc.

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: Henry van Cleef <vancleef@bga.com>

Subject: Re: Dead Tek 454 O'scope

Message-ID: <199508280608.BAA11582@zoom.bga.com>

Well, after having spent the evening getting a Tek 533 horizontal circuit to work, (one bad tube, one bad NE-2, one bad timing resistor), I don't envy you the project, and get the idea from your posting that you are fishing in the dark.

First of all, get a manual for the scope.

Check that all the power supplies are working. One dead supply will give you all sorts of interesting symptoms.

Trouble shoot back from the CRT. Does the horizontal amplifier work? Can you position the trace? Is it at the left on sweep input, center on external horizontal?

If you've got that, check the sweep sawtooth generator. That is an operational amplifier setup with resistors to the minus input and capacitors for feedback. Check the state of the two gating diodes. One is connected to the summing junction to return the trace by supplying a discharge current. The other is a catcher to clamp the sweep at the start point.

There is a sweep gating multivibrator in front of that. Check its state and see if you can get it to toggle. If the sweep generator is at maximum, and the trace not at the right end, you've got a problem in

the output circuit, which trips the gating multivibrator at the end of the sweep.

In front of that is a trigger multivibrator. It should free run in AUTO.

In front of that is a trigger level amplifier. It is a differential amplifier. You should be able to trigger the multivibrator with the trigger level control on DC.

In front of that is the vertical amplifier trigger pickoff. Don't bother looking at that until you have external triggering working.

The Tek manuals are fairly clear about showing the functional blocks. However, you'll have to walk through each circuit. Generally, checking DC levels with a multimeter will find the problem.

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\*\*\*\*\*  
Hank van Cleef vancleef@bga.com vancleef@tmn.com  
\*\*\*\*\*

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: "Walker, John" <WALKERJ@oltmp003.allied.com>  
Subject: Display tubes needed  
Message-ID: <30420769@tmpgw951.allied.com>

Maybe some of you fellas can help me out with tubes still needed for the collection here.

MIDWEST VACUUM TUBE MUSEUM  
LIST OF SOME SPECIFIC TUBE TYPES NEEDED

TRANSMITTING TYPES MADE BY TAYLOR

F52, T210, TF-100, TR-40M, 204A, 211, 249C, 468, 803, 813, 814, 833A, 838,  
841SW, HD203C, 866B, 872A, 875A, 8000, 8008, 8013, 8020, VT-25

TRANSMITTING TYPES MADE BY HEINTZ & KAUFMAN

5, 54S, 57, 153, 154, 155, 158, 250T, 252L, 253C, 254, 255, 255X, 257A,  
257C, 275, 275B, 279A, 304H, 304TL, 328A, 354A, 354B, 354D, 354E, 355, 357C,  
454, 454A, 454C, 454L, 854, 854L, 854H, 953, 953D, 953E, 1054, 1054L, 1554,  
2054A, 2054B, 3054, VT-227, 6907, 4E24, VACUUM GAUGE TYPES VG-2, VG-24G,  
VG-54

TRANSMITTING TYPES MADE BY RAYTHEON

RK-10, RK-15, RK-16, RK-25B, RK-30, RK-32, RK-41, RK-43, RK-44, RK-45,  
RK-46, RK-47, RK-53, RK-56, RK-58, RK-63A, RK-64, RK-100, RX-120, RX-215,  
RX-226A, RX-233, RX-235

TRANSMITTING TYPES MADE BY HYTRON (NOT CBS/HYTRON)

HY-57, HY-63, HY-114, HY-115, HY-145ZT, HY-165

TRANSMITTING TYPES MADE BY EIMAC

2-15A, 2-100A, 2-150A, 2-250A, 2-2000A, 4X100A, 4X500F, 25R, 35R, 75TH,  
152R, 152RA, 152T, 250R, 327B, 500T, 527A, 750T, 826, 866, 866A, 872, 872A,  
2000T, TWIN 30, UH-35, UH-50, UH-5, VACUUM GAUGE 100IG

"800" SERIES TYPES

825, 827R, 839, 848, 853, 854, 855, 856, 859, 862, 875, 881, 887, 888, 891,  
893, 895, 896, 897, 898, 899

Your help in obtaining any tubes on this list is much appreciated!!!

John H. Walker Jr. walkerj@oltmp003.allied.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: Andy Wallace <wallace@mc.com>

Subject: Electric Radio info / BA FAQ update?

Message-ID: <9508282133.AA01192@kali>

Sure thing, Phil. It's ER, P. O. Box 57, Hesperus, CO 81326.  
Phone/FAX is (970) 247-4935. \$28 per year in the U.S. at 2nd  
Class, \$38 for 1st, Canada by air \$39, rest of the world by  
air at \$70.

I upgraded my subscription to 1st this year and I still get the mag  
about three days after some West Coasters. I'll probably go back to 2nd  
next year.

You will like the magazine (8.5 x 5.5" and 60 or so pages) if  
you like the old tube rigs. Barry Wiseman seems to keep a good mix of  
transmitter, receiver, transceiver, military, and construction projects  
coming. It is certainly filling a niche not available elsewhere. Also,  
several other BA members are/have been authors! Maybe me, someday.

If this info isn't in the BA FAQ file available at The Porch, it  
certainly should be.

--Andy  
wallace@mc.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: "Jack Giehl" <JACKG@s1.xetron.com>  
Subject: Re: Findlay Ohio Hamfest ?  
Message-ID: <D93DE0B18@s1.xetron.com>

Dear BA enthusiasts,

Stan wrote:

> Many years ago when I lived in the snow country, the Findlay hams  
> had a fabulous hamfest around labor day. Is one scheduled this  
> year?

The Findlay hamfest is Sunday, September 10. The Cincinnati hamfest  
is September 17. See you at both. (I'll be the guy with hat and HT)

Jack

73,

=====

Jack, WB8BFS  
jackg@xetron.com      Loveland, Ohio (near Cincinnati)

=====

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>  
Subject: Re: Findlay Ohio Hamfest ?  
Message-ID: <3041CAD7@smtptime.rfc.comm.harris.com>

The Findlay hamfest is Sunday, September 10. The Cincinnati hamfest  
is September 17. See you at both. (I'll be the guy with hat and HT)

+++++

Oh, NOW I know who you are - Hat & HT, ya shudda said so earlier  
and I wudda stopped to say howdy.....  
Ed K2MP @ Rochester  
emg@rfc.comm.harris.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>  
Subject: RE: flex weave antenna wire question ?  
Message-ID: <3041B045@smtptime.rfc.comm.harris.com>

How does one attached to the insulators ?

Guess I could tie it in a knot ?  
++++++  
YES, surprise, surprise ! Tying in knot is the recommended way.

Ed K2MP  
emg@rfc.comm.harris.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Jim Durham <durham@w2xo.pgh.pa.us>  
Subject: RE: flex weave antenna wire question ?  
Message-ID: <Pine.BSF.3.91.950828110144.9489C-100000@w2xo.pgh.pa.us>

On Mon, 28 Aug 1995, Gable, Edward M wrote:

>  
>  
> How does one attached to the insulators ?  
> Guess I could tie it in a knot ?  
> +++++  
> YES, surprise, surprise ! Tying in knot is the recommended way.  
>

How about small clamps, such as used on guy wires? You could also put an extra nut on the bolts used to tighten them to put a lug under for connection to the feedline. I don't know how small these clamps come, though...but I think the ones I use for my dog run would work and they're readily available. This would have the added avantage that it would be pretty strong and you could put Fido on it (with suitable non-metallic downlead, one hopes!)

73, Jim, W2XO

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Follow-up to Vibroplex bug info  
Message-ID: <9508282033.AA05695@syseng1.se.melpar.esys.com>

I neglected to give credit to the following sources:

"The Vibroplex Company, Inc." by Bill Holly, K1BH

"Introduction to Key Collecting" by Tom French, W1IMQ

"The Vibroplex Collectors Handbook" by Tom French, W1IMQ

Randy Cole, KN6W, Vibroplex collector "par excellance" (and all-around nice guy as well)

"Mitch" Mitchell, WA40SR, the new owner of Vibroplex

Paul, K4MSG

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: SOUNDNMIND@aol.com

Subject: FS Boonton uwattmeter

Message-ID: <950828184929\_85573676@mail.aol.com>

I have a mint microwattmeter, Boonton 41A. This unit is very much like the 91 rf voltmeter but reads in dbm instead. Range .01 thru 10k microwatts, on one scale, and the other scale reads -50 thru +10 uwatts. It has a recent calibration. Meter complete with PU cable/ unit terminating in BNC. \$ 175. conus

Dee, W4PNT  
(800) 755-2365  
920B Alexander Ln.  
Waynesboro, Va. 22980

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: SOUNDNMIND@aol.com

Subject: FS Hammarlund

Message-ID: <950828185329\_85573725@mail06.mail.aol.com>

VERY CLEAN Hammarlund "superpro" BC779B VLF Rx. After spending 2 days with this on the bench, it also works very well. I refinished the panel back to original. Freq covers 100kc--20mc(no BC band coverage). Rack mount power supply. I will give a 30 warranty.

\$ 300. conus or will deliver to Gathersburg.

Dee, W4PNT  
920B Alexander Ln  
Waynesboro, Va. 22980

(800) 755-2365

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: SOUNDNMIND@aol.com  
Subject: FS looking for Scott Collect.  
Message-ID: <950828185333\_85573756@mail04.mail.aol.com>

E. H. Scott RCH Rx. This was found on many Liberty ships. This one is in good condition and works. (I didn't align this one & it needs aligning) Freq VLF 50kc--24mc less BC band. The panel is black wrinkle finish (orig) and in good condition. Has no cabinet but is rack mount. I have a copy of the manual from the Navy Dept..

I need \$ 125. Would consider trading for Johnson or Drake equipment U-ship or will deliver to Gathersburg.

Dee, W4PNT  
(800) 755-2365  
soundnmind@aol

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: lstolz@tekelec.com (Lynn Stolz)  
Subject: FS: Ham Radio Books (lotsa BA Related ) PART 2  
Message-ID: <9508282040.AA25716@london.oh.tekelec.com>

Fellow hollow-staters:

Thanks to all of you that responded and am helping to clear out my library of duplicates, and unwanted books. I have updated my list of books that are still available ( and adjusted downward some prices).

Those of you that thought prices were a bit steep on some books, I am willing to negotiate prices if you are willing to pick them up. (I can't seem to get the Post Office to negotiate postage prices with me ;-)...).

I still have more books to go through, and hope to have more to list later on. I also have many 40's, 50's and 60's vintage CQ magazines. If anyone is looking for individual issues, drop me an email request and I'll see if I have them.

Here's the latest:

RADIO BOOKS FOR SALE - all prices are PPD 4th Class Book Rate - inquiries to lstolz@tekelec.com.

PUBLISHER	TITLE....	
PUBL. DATE	PRICE....	
73 Inc	Semiconductor Handbook Vol 1	1970
3.00		
Ameco	AMECO Code Course	
3.00		
Ameco	Mastering The Morse Code	1969
3.00		
ARRL	ARRL Electronics Data Book	1976
7.00		
ARRL	AX.25 Packet Radio Protocol	1984
4.00		
ARRL	FM and Repeaters	1982
4.00		
ARRL	FM and Repeaters	1972
4.00		
ARRL	FM and Repeaters	1972
4.00		
ARRL	FM and Repeaters	1982
4.00		
ARRL	GIL	1986
4.00		
ARRL	Hints & Kinks	1978
8.00		
ARRL	Hints & Kinks	1974
8.00		
ARRL	Hints & Kinks	1992
8.00		
ARRL	Hints & Kinks	1968
8.00		
ARRL	Hints & Kinks	1965
8.00		
ARRL	Hints & Kinks	1989
8.00		
ARRL	Learning the Radio Telegraph Code	1963
3.00		
ARRL	Mobile Manual (4th. Ed.)	1968
7.00		
ARRL	Mobile Manual (1st. Ed.)	1955
10.00		
ARRL	Operating an Amateur Station	1983
3.00		
ARRL	Radio Amateur's Operating Manual	1972
5.00		
ARRL	Radio Amateur's License Manual	1957

3.00		
ARRL	Radio Amateur's License Manual	1966
3.00		
ARRL	Radio Amateur's License Manual	1973
3.00		
ARRL	Single Sideband (4th. Ed.)	1965
10.00		
ARRL	Single Sideband (3rd. Ed.)	1962
10.00		
ARRL	Single Sideband (5th. Ed.)	1970
10.00		
ARRL	Single Sideband (1st. Ed.)	1954
10.00		
ARRL	Solid State Design	1977
7.00		
ARRL	Specialized Communications Techniques	1975
7.00		
ARRL	The ARRL Operating Manual	1980
7.00		
CQ	Mobile Handbook (Ed. 1 & 2) two volume set	
1953,1956	20.00	
CQ Communications	The 1994 Amateur Radio Almanac	1993
11.00		
CRB Research	CB Radio HAcker's Guide	1992
7.00		
Drake & Co.	Drake's Cyclopedia of Radio and Electronics (HB)	1935
20.00		
Editors & Engineers	Read Electronic Diagrams	1966
3.00		
Fawcett	Best Electronics Projects	1963
4.00		
Federal Tel & Radio (ITT)	Reference Data for Radio Engineers ( 3rd Ed.)	1949
20.00		
Gernsback Library	Servicing Transistor Radios	1959
8.00		
Ham Radio	Low & Medium Freq Scrapbook	1977
6.00		
Ham Radio	Novice Radio Guide	1974
8.00		
Harper	Applied Mathaematics for Technical Students	1943
7.00		
Hayden	Basic Electronics Vol 1-6 (HB)	1955
12.00		
Hayden	Basic Electricity Vol 1-5 (HB)	1978
12.00		
Hayden	Basic Solid-State Electronics Vol 1-5 (HB)	1983
12.00		
International Rectifier	Hobby Project Manual	1969

3.00		
McGraw-Hill	The Founder's Touch (Hardbk History of Motorola)	1965
15.00		
MFJ	Golden Classics of Yesteryear	1988
6.00		
Parker	Manl of Electronic Svcing Tests & Measurements	1985
10.00		
Popular Science	RADIO for the Millions (Hardback)	1945
10.00		
Prentice-Hall	Tested Electronics Troubleshooting Methods	1975
8.00		
Publications Intl.	The Basic Book of HAM RADIO	1978
5.00		
Radio Amateur Callbook	Radio Amateurs World Atlas	1970
3.00		
Radio Publications	VHF Handbook	1956
10.00		
Radio Shack	Electronics Data Book	1972
5.00		
Radio Shack	Engineer's Notebook	1981
4.00		
Radio Shack	Engineer's Notebook	1980
4.00		
Radio Shack	Transistor Projects Vol 1	1973
5.00		
RCA	Transistor Manual	1967
5.00		
RCA	Transistor TV Circuitry	1965
2.00		
Reston Publishing	Oscilloscope Handbook (hardback)	1974
8.00		
Rider	Basic Television Vol 1,2,3,4,5 complete set	1958
25.00		
Rider	Practical CB Radio Servicing	1968
5.00		
Sams	Eliminating Engine Interference	1968
5.00		
Sams	Scanner-Monitor Servicing Data (SD-3)	1973
7.00		
Sams	Scanner-Monitor Servicing Data (SD-4)	1974
7.00		
Sams	Transistor Substitution Handbook	1972
3.00		
Tab	Latest Intelligence (Hardback)	1990
10.00		
Tab	Transmitter Hunting: RDF Simplified	1987
7.00		
Tab	Troubleshooting and Repairing Audio Eqpt	1987

7.00

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Good home looking for a J-38  
Message-ID: <9508281716.AA19181@syseng1.se.melpar.esys.com>

Looking for a J-38 in decent condition. Doesn't have to be pristine or mint, just a clean, complete J-38 including the knob, circuit closer, base with eyelet and all markings intact. I'd prefer one of the versions which had all the parts of the key cad-plated, but if you've got a clean 'un of any description you'd be willing to part with, let's haggle.

Paul, K4MSG                    pbock@melpar.esys.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Home looking for Command Sets  
Message-ID: <9508281514.AA16269@syseng1.se.melpar.esys.com>

Good home looking for mistreated Command Set transmitters. Particularly interested in locating a T-19/ARC-5 (3-4 MHz) in reasonably complete condition. OK if basic ham conversion was done, but must have all coils & caps unmodified. The cleaner it is, the more interested I'll be.

Also interested in any other models (either ARC-5 or BC-xxx) covering any frequency range which may be incomplete but useful as parts sources. Tell me what you've got!

73,

Paul, K4MSG                    pbock@melpar.esys.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Michael.J.Knudsen@att.com  
Subject: Re: HQ-170-VHF / 6BE6 tubes  
Message-ID: <9508281555.AA26931@bock.ih.att.com>

Sheesh! THis sounds exactly like the problem in my Pierson KE-93 mobile RX! I'll bet it has a 6BE6 substituted for some odd 3-volt tube and the now-gone

filament ballast tube. Luckily there are plenty of 6BE6s around, must be a good one in my tube boxes somewhere. 73, mike k w9nrd

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Michael.J.Knudsen@att.com  
Subject: Re: HQ-170vhf help  
Message-ID: <9508281547.AA26914@bock.ih.att.com>

The SP600 does not go to dual conversion until the band above 40 meters. Not that this applies to the 170, but it probably does and I would agree the 2nd mixer is shot. Does the 170 have a "gate" tube that shunts the single-conversion IF around the 2nd mixer? That could be working OK but not the mixer or xtal-controlled 2nd local oscillator. 73, mike k

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>  
Subject: I'll be right back... Play nice...  
Message-ID: <9508281847.aa29272@jackatak.theporch.com>

Gang-

Just quick note:

I am on my way out of own until Tuesday evening.

Play nice and enjoy the list with eachother.

BTW, there were a couple outages around noon today, but nothing major, I don't think... I'll try to check later, but I have several hundred miles to go before I sleep! ;^)

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)  
- - - BoatAnchor Mailing List Owner - - -  
listown@jackatak.theporch.com-"Plus ca change, plus c'est la meme chose"

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Jeffrey Herman <jeffrey@math.hawaii.edu>  
Subject: Re: I'll be right back... Play nice...  
Message-ID: <Pine.SUN.3.91.950828143557.4182A-100000@kahuna>

On Mon, 28 Aug 1995, List Admin/Owner BoatAnchor Mail List wrote:

> Gang-  
> Just quick note:

> I am on my way out of own until Tuesday evening.  
> Play nice and enjoy the list with eachother.

Oh boy! Dad's gone - let's get into some mischief... ;)

Jeff NH6IL

P.S. Still looking for my DX-60B in mint condition (either assembled by an EE or still in kit form [what a dream, huh?]).

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: jml@spider.lloyd.com (Jim Lockwood)  
Subject: International Servicemaster tubes  
Message-ID: <m0snB8I-0010i7C@spider.lloyd.com>

> International servicemastere  
>> tubes are best inserted to the round file as soon as they are removed  
>> from the box. I would guess that 50% of the International tubes that I  
>> run into in radios that I repair for people do not work right.

Here is an extra data point about International tubes:

In my ignorance a couple of years ago I bought some of these. I bought a handful of each of:

6EA8  
12AT7  
12AX7

Of these, the 6EA8s and 12AT7s test OK on my TV-7 and they have performed OK in the radios in which I've used them. They were reasonably priced and I'd probably be tempted to buy more.

The 12AX7s, however, more closely resemble 12AU7s in performance. They are low on gain and generally are unsuitable as first stage microphone amplifiers, which is my main application for them. I wouldn't recommend buying any of these.

Of course, my tubes represent just a snapshot of what was available at one particular point in time. Your Gm may vary.....

73,

Jim - km6nk

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: "Barry L. Ornitz" <ornitz@eastman.com>  
Subject: Re: Line to Voice-coil Transformer?  
Message-ID: <Pine.ULT.3.91.950828144539.6894A-100000@dua150.kpt.emn.com>

Remember that the impedance changes as the square of the turns ratio.  
Thus with a 1K CT to 8 ohm transformer, using half of the primary winding  
will change this to a 250 ohm to 8 ohm transformer.

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Bill Smith <bilsmith@crl.com>  
Subject: Re: Line to Voice-coil Transformer?  
Message-ID: <Pine.SUN.3.91.950828113647.3060B-100000@crl11.crl.com>

Filament transformer works well. Also, Radio Shack sells a "line to voice-coil" transformer that seems of good quality. "Line" is really 600 ohms, though the spec is rated at 70.2 volts. Same thing.

Watch the comments fly!

73 de Bill, AB6MT  
bilsmith@crl.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: doonan@cordmc.dnet.etn.com (DENNIS DOONAN X6916 (KG9DO))  
Subject: LM21  
Message-ID: <9508281149.AA18753@etn.com>

Hello to all,

A LM21 "Crystal Calibrated Frequency Indicating Equipment" followed me home from the Woodstock, IL hamfest. The unit is in nice clean shape and has the connector for the power source. The AC supply that came with the LM21 was a simple unregulated supply. Should this be replaced by a regulated supply or can the LM 21 handle this? Also, is there a schematic available for this. I have the calibration book, but not the tech manual.

Other spottings:  
Heath SB301 \$120  
Millen Grid Dip Meter & all coils \$40  
Collins R390 --open to offers only!

73 de Dennis, KG9DO

doonan@cordmc.dnet.etn.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: rdkeys@unity.ncsu.edu

Subject: Re: LM21

Message-ID: <199508281320.JAA06595@cc01du.unity.ncsu.edu>

> Hello to all,

> A LM21 "Crystal Calibrated Frequency Indicating Equipment" followed  
> me home from the Woodstock, IL hamfest. The unit is in nice clean shape  
> and has the connector for the power source. The AC supply that came with  
> the LM21 was a simple unregulated supply. Should this be replaced by a  
> regulated supply or can the LM 21 handle this? Also, is there a schematic  
> available for this. I have the calibration book, but not the tech manual.

>

> 73 de Dennis, KG9DO                  doonan@cordmc.dnet.etn.com

A simple power supply is fine. Regulators are built into the LM.

Any voltage from 150-475 will work fine, as long as the proper switches  
are set internally.

There is a Boatanchors On-Line Historical Documentation Archives electronic  
manual with schematics and enough illustrations to get you going that is  
on the net. If you can't find it, let me know and I can email it to you  
if your mailer can handle it. If not, I can put it up for ftp somewhere  
for you. It requires a postscript printer for printing and about 8 megs  
of hard disk space to unpack into for printing.

73/Bob/NA4G

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Meissner HUGE transmitter

Message-ID: <9508281603.AA26937@bock.ih.att.com>

Nice of Bobbi to plug Meissner again. I've been interested in this  
Midwestern company since I helped clear out the garage of the son of  
one of their engineers, Jerome Kleker. I have the prototype of  
their "True Fidelity" hi-fi AM/SW rx, which uses the same 5-band front end  
module as the Traffic Master and Traffic Scout. 3 selectivity positions  
using those big Meissner Ferr-Cart IF cans. And several Thordarson audio  
xformers, chrome-plated in the best EH Scott tradition. Sounds as good  
as it looks.

I'm glad to see that Moore's book gives Meissner their due in the ham field.

With their kits and specialized components, Meissner carried on the homebrew tradition that Browning and Drake started back in the '20s via a little toymaker outfit called National.

Meissner also made an incredible AM/FM/SW radio-phono around 1950, which I saw. If you hadn't the money or the strong back for it, you compromised and got an EH Scoot 800-B instead. 73, mike k w9nrd

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Meissner HUGE transmitter

Message-ID: <9508281614.AA26948@bock.ih.att.com>

Oh geez, don't replace those "Phillips" 10-turn cylindrical trimmers; they're a real Meissner trademark. Not that they work all that well, and the ones for the top band in Meissner's 5-band front-end module are inaccessible once the module is installed in the main chassis :-(

BTW I have a Norwegian (!) portable radio of about 1950, very pretty, that uses those "Phillips" trimmers. You turn them with your fingers, not a tool. The marine/police band on this set is labeled "Fisherman's Band" in Norsk -- talk about people who use REAL boatanchors :-)

I must admit that in my Meissner True-Fidelity rx, the component lead dress is old 1920's right-angle style, and the layout of the IF cans and tubes maximizes stray coupling so the thing is hard to align without breaking into oscillation. It's worth the effort, tho. But the layout seems optimized to look good rather than work well. No, I wouldn't "fix" it -- "she's much too nice to re-a-rrange..." 73, mike k

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: rdkeys@unity.ncsu.edu

Subject: Re: Microtubes

Message-ID: <199508281334.JAA07753@cc01du.unity.ncsu.edu>

>  
> BA Folks,  
>  
> I happened to pick up an April 1941 copy of Radio-Craft. On pages  
> 610-612 is an article about "Microtubes". This was supposedly  
> the trade name of these 1.125" X 3/8" tubes. The title of  
> the article is "1933 'April Fool' Tube Now A Reality!" by  
> R.D. Washburne. The article includes sketches of the tube, two  
> circuits uses it and text. The tube was supposedly in two versions:  
> M74 (screen grid voltage amplifier) and M54 (tetrode beam-characteristic  
> power amplifier). I quote:

>  
> The filament "A" drain is 20 ma. for the M74, and 40 ma. for the M54  
> at 5/8 volt; total (plate and S.-G.) "B" drain is well under 1/2-ma.  
> for the M54 at about 45 V. The power output of the M54 is ample for  
> most headphone needs.  
>  
> I have never heard anything about thse. Are they another April Fools  
> Joke? For the same mag to try to pull the same joke would be pushing  
> it.  
>  
> --Brian, KV9X

Such tubes are quite common, as to this size. But I have never heard of those particular numbers. ``Submini'' tubes were used in hearing aids, proximity fuzes for shells, bombs and the like, and in a few boatanchor radios (mostly the RCA things for the military), and some commercial stuff (Motorola used them in their Dispatcher series of vhf radios, etc.). Look in the back of the RCA tube manual and there are numbers in the 6000 and 7000 series that are standard types, plus several 1-series tubes with 1.5 volt filaments. These things make fun playthings anymore, unless you need them for the particular radios in which they go. In the early days, there may have been experiments to supply low voltage filament tubes, but I am not aware of any. Most had standard filament voltage ratings. They would run fine at plate voltages as low as 22.5 volts or as high as 250 volts, depending upon tube type. The format for the pins were usually wires about 2 inches long that were soldered into place or trimmed to fit special sockets. The pins were arranged inline or in a circle of about 3/8 inch. There are examples in the War years QST's around 1944-45 that show the tube used in the proximity fuzes. My OM helped design some of that stuff at the University of California War Research Labs in Pt. Loma (near San Diego) about 1943 or so. These tubes make interesting static displays on the mantle, but that's about all, anymore.

73/Bob/NA4G

From boatauthor@theporch.com Mon Aug 28 13:31:00 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Re: Microtubes  
Message-ID: <199508281702.KAA24835@hobbes.UCSC.EDU>

While we're on that subject, does anybody remember TIMM - Thermionic Integrated Micro Modules that somebody - RCA I think - was pushing as a last gasp against transistors.

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: don merz <71333.144@compuserve.com>  
Subject: Misc FS/Trade/WTB  
Message-ID: <950828154444\_71333.144\_DHQ66-1@CompuServe.COM>

For Trade and Wanted

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.  
412-234-8819 (weekdays, EST or leave a message anytime).  
71333.144@compuserve.com

FOR SALE

RCA Radiotron Designers Handbook, 3rd edition, 1941. Naer-mint. \$22  
Globe "Tenna-Meter." Some sort of power output meter and antenna efficiency  
meter accessory. With original instruction sheet. Excellent. \$19  
Heathkit AM-2 "Reflected Power and SWR Bridge." Dirty, disconnected wires  
inside that I think are supposed to go to some (missing) diodes. But no  
holes, nice case and front panel. Should clean up to excellent condition. \$9  
Lafayette KT-200 receiver. 1959 General Coverage receiver originally sold  
as a kit (in factory-assembled form it was called the HE-10). Styled to  
look like the Hallicrafters S-38 with the back-to-back half-moon dials  
but larger--it looks like an S-38 on steroids with an "S" meter. This one  
is unmodified and in good shape with clean paint except for a scrape along  
the top front edge. 3 unoriginal knobs. Dial faces are clean and dials work  
correctly. Tested unworking--no fire in the bottles--but I did not  
investigate. Scarce radio. \$65

Hallicrafters SX-43 receiver with matching R-44 speaker. Very good cosmetic  
shape. Excellent front panels except dial glass is broken in two and the  
band switch has rubbed against the panel at the upper end of its travel.  
Cases are very good except speaker has one deep scratch on the top. Working  
pretty well. Some recapping has been done. Really nice overall. \$165

Military #19 Mark II transmitter/receiver. WWII British design used  
in the tanks of nearly all Allied nations. HF, 2-8mhz or so, and one  
channel of VHF at about 235mhz. AM and CW. Unique two-channel tune-lock  
procedure allows auto-tuning to two pre-set frequencies. Requires external  
power supply--see dynamotor supply listed below. This one has a very good or  
better front panel, but a junky case with some surface rust. No holes or  
mods of any kind that I can see. Untested. \$85

DAG direction finder receiver. This is a WWII-vintage Navy RDF set with  
separate loop and sense (whip) antennas that plug in to the top. The  
whole thing is in an 18" square, 6' deep metal suitcase with a leather  
handle. The receiver is HF covering about 2-20mhz in 3 bands. The receiver  
sits in the top half of the suitcase with the battery compartment and  
headset storage compartment below. The 2 antennas store in clips inside  
the suitcase lid. Both antennas and manual photocopy included. This is  
apparently the original model (since it has no -1 or -2 behind the "DAG"

on the tag.) This one is olive drab. The case serial number (#518) and radio serial number don't match. Excellent looking and decent working. No headset. \$235

#### TRADE

SCR-274N FT-220A 3-receiver rack (black) made by Western Electric. All original. Missing 2 fuse holder covers. No shockmount. Some scrapes and scuffs but basically very good condition. Trade only--not for sale.

#### WANTED

Manual for Hallicrafters SX-62B

Matching speaker for Hallicrafters SX-62B

Manual for Poly-Comm Six 6-meter am/CW transciever (photocopy okay). Trade copy of Poly Comm 2 manual.

BC-348 receiver. All original. Working preferred.

Shockmount for SCR-274N or ARC-5 3-receiver rack.

PE-110 power supply for the BC-669 (SCR-543) \*

Military #19 Mark II telegraph key only--I have the metal shell. The Mark II key came in a metal shell with two canvas straps on it for strapping it to the operator's leg. I have the rounded shell (another variation had a shell with squared-off edges). BUT this shell has no key! Can you help? I think the key was a standard Bunnell or WT8...it's about that size anyway...

BC-191 (same as BC-375) connectors, any. Also need BC-191 manual.

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: bill@texan.frc0.com (William Hawkins)

Subject: Re: Need technical info on Heath Ham-Scan

Message-ID: <9508280312.AA29220@texan.frc0.com>

One other thing about panadapters (he said generally, when the only circuit he's ever seen is the 1031), they need a special, two peak input amplifier. The IF from the receiver has been peaked by the primary of the IF transformer at the plate of the mixer, in the usual receiver circuit. The input amplifier of the panadapter is tuned for peaks above and below the receiver's IF, in order to broaden the passband to something approximating the sweep width.

You probably already knew that, but you did say the original IF was much higher than 1600 kc.

Bill Hawkins bill@bvc.frc0.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: "Barry L. Ornitz" <ornitz@eastman.com>  
Subject: Re: Need technical info on Heath Ham-Scan  
Message-ID: <Pine.ULT.3.91.950828200459.9717A-100000@dua150.kpt.emn.com>

On Sun, 27 Aug 1995, Jim Lockwood wrote:

> The Ham-Scan uses a 350KC IF. I can find no mention in the manual of  
> whether the sweep oscillator runs at the input frequency + 350 KC or at the  
> input frequency - 350 KC. i.e. am I trying to wind a coil for an oscillator  
> operating in the 1300KC region or in the 1900KC region?

Look at the circuit which probably has a varactor diode driven by a sweep generator which also drives the scope horizontal channel. Note the polarity of the sweep and the diode voltage. If the sweep voltage increases as the scope sweeps to the right (which generally means higher in frequency), the adapter uses high side injection (lowest voltage = greatest capacitance from varactor = lowest frequency). If the sweep voltage goes negative as the tube sweeps to the right, the deflection electrodes on the horizontal circuit in the CRT are likely inverted.

My best guess (since it has been years since I had a Heath panadapter) is that high side injection is used anyway. This is because for a given change in capacitance from the varactor, the frequency sweep will be larger with high side injection.

If none of this makes sense, I have been working with solvents all afternoon with my exhaust fan tagged out! :-)

If all else fails, reverse the connection to the deflection plates on the CRT - or reverse the bezel!

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Scott\_Johnson-AZAX60@email.sps.mot.com  
Subject: Needed- Command XMTR  
Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Subject: Time: 10:32 AM  
OFFICE MEMO Needed: Command XMTR Date: 8/28/95  
I need the ceramic insulator and contact assembly for the roller inductor on my  
ARC-5 XMTR, any set would work. I'd be happy with just the parts, or a whole  
4-5.3 MC parts rig.  
thanks in advance, Scott

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Joseph White <jhw@es.rti.org>  
Subject: Nelson Ross PSA-311 Spectrum Analyzer  
Message-ID: <Pine.ULT.3.90.950828141300.24242J-100000@babar>

I have "on approval" a Nelson Ross PSA-311 Spectrum Analyzer plug-in for the Tektronics tube type scopes. The unit functions but the sensitivity is below spec and the range of gain control from the front-panel pot is not as wide as it should be. I feel that the unit would be easy to fix if I had the right manual for it. There is a manual with the unit that the present owner obtained from the manufacturer with some difficulty (\$50 worth among other difficulties), but the internal modules in this unit are not the same as the ones described in the manual. The unit that I have seems to be a later version although that is not indicated in the model number. (The front panel layout and the frequency mixing scheme are identical with that described in the manual.) I'd like to try to obtain a more relevant manual but need a little advice from you masters of equipment resurrection before I can proceed.

What is the current company name for Nelson Ross (i.e. what company are they a part of now)?

Does anyone happen to have a manual for one of these that they would be willing to copy (expenses reimbursed, of course)? ...or could you point me toward a source for one? (I'm confident that the usual sources like Manuals Plus, Tucker, etc. have all been tried by the current owner.)

Anyone familiar with this unit that might know its worth or have any comments on how well it works?

Any and all help gratefully appreciated.

Joe White WA4GIR jhw@rti.org

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Bill Smith <bilsmith@crl.com>  
Subject: Re: old microphones  
Message-ID: <Pine.SUN.3.91.950828110906.3060A-100000@crl11.crl.com>

Hi, Chris.. well, there are several models that fit your description.  
Maybe it's a Bruno Velotron, made by Bruno Radio Labs.  
Then, it could be made by RCA (though it should have a RCA label somewhere)..  
Possible models: 44A or 74B (smaller)  
variants of the 44:

3027-E  
4027B

4026C

3027D

RCA manufactured audio products for the film industry under the PhotoPhone division, out of Camden NJ and Indianapolis. They may still have a repair depot in Hollywood.

The color of the microphone was designed to avoid light reflections in a film/TV environment.

Wish I knew more, this is all info obtained from someone much more knowledgable than I.

Let me know if you want to get rid of it, hi hi..

73 de Bill, AB6MT  
bilsmith@crl.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: "Dick Dillman" <ddillman@igc.apc.org>

Subject: Radio Frustration High - Move Required

Message-ID: <199508281952.MAA15618@igc3.igc.apc.org>

Greetings, my fellow enthusiasts. I come to you with a presonal problem because I know that you are one of the only groups that will understand my distress.

Like most of us, radio is in my blood. My idea of a good time is sitting in front of a classic receiver, listening to all of anything that's out there. As I type, I'm surrounded by some of the best receivers ever made from the HRO-5 to the 51J-4 with most of the other classics in between. I even have a full size log periodic antenna in storage, just waiting to be put up and start sniffing for odd RF.

My problem and the source of my great frustration is that I can use none of this equipment. The noise level here in San Francisco is so high that it masks even the BBC at times. And forget about putting up a LPA in my neighborhood.

Now that I'm past 50, I realize that I better do something quick if I ever expect to relax in the radio paradise I've always dreamed about - and that's where y'all come in. If any of you have leads to a place I can move to, preferably within an hour or so of San Francisco, where a man could put up a nice crop of antennas and not be bothered much by electrical noise, please let me know. I realize

that most of you might have already snapped up such a location if one exists (and, unfortunately, we're talkin' a rental here) but in case there's one still remaining I'd love to know about it.

Best Regards,

Dick Dillman/WPE2VT  
<ddillman@igc.apc.org>  
San Francisco

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: johnmb <johnmb@nando.net>  
Subject: Radio Shack tubes  
Message-ID: <Pine.SUN.3.91.950828200945.20795A-100000@parsifal.nando.net>

Has anyone ever tested Rat Shacks tube lifetime warranty?  
I was looking thru some old tubes over the weekend and noted that warranty mentioned on the box of what looked like one of their premium replacement tubes.

I wonder if that warranty is transferrable?  
:-)

/john

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: owens@stout.atd.ucar.edu (Chip Owens)  
Subject: RBB Receiver stuff  
Message-ID: <199508282246.QAA09711@atd.atd.ucar.EDU>

I'm looking for any of the following items for the US Navy shipboard radio receiver model RBB-2:

a manual, photocopy, or information about where to find a manual.

the mating coaxial cable connector for the antenna connection.

since the ID plates are missing, I'd like to find a replacement, or a photocopy of the plates that go on the front panel and cabinet top.

a photocopy of the chart that goes in the chart frame on the front panel of the receiver.

Thanks!

Chip Owens, NW00

owens@stout.atd.ucar.edu

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: ji3m@scubed.com (James R. Duffey)

Subject: SB-110A Hints, tips and information?

Message-ID: <ac678da400021004c0eb@[192.31.66.240]>

At the Duke City Hamfest in Albuquerque this weekend I picked up a Heathkit SB-110A 6 meter SSB/CW rig. I had been looking for a 6 meter SSB rig for a while and the price was too right to pass up; \$80 for the rig, SB-600 speaker, HP-23 power supply and Electro Voice 683 microphone. The manuals were included as well.

It is clean, well assembled, and appears to work ok, or at least not have any problems that can't be fixed with switch contact cleaning, relay contact burnishing and a general realignment.

Can anyone give me some tips on this rig-what its strengths and weaknesses are, things likely to go bad? Does it have adequate sensitivity for 6 meters or should I add a receive preamp? It uses 6DS4 nuvistors for the RF and mixer. AMECO used these same tubes in their 6 meter converters of the era and advertised 2.5 dB noise figure which seems adequate if not outstanding for 6 meters. How is it with respect to TVI? I notice there is no filtering other than the output pi network. Should I add a 6m bandpass filter or fast roll off low pass filter? I am not too concerned about TVI although we have channel 2 here. We get cable and are in an area where the smallest lot is 2 acres, so there is some distance between me and the neighbors. Most of the neighbors have cable or satellite dishes.

Any information would be appreciated. Thank-Duffey KK6MC/5

James R. Duffey ((505) 764-3143)  
Maxwell Laboratories, S-Cubed Division  
2501 Yale Blvd SE Suite 300  
Albuquerque, NM 87106-4125  
ji3m@scubed.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: "Hal R. Waite" <halwaite@netcom.com>

Subject: Re: SX-117  
Message-ID: <Pine.SUN.3.91.950827204457.3183B-100000@netcom5>

On Sat, 26 Aug 1995 KB9VU@aol.com wrote:

> OK BA experts, what would be a fair price to pay for an SX-117 that is  
> "clean, working", all original except "the tuning knob is not the right kind  
> with spinner and calibrated skirts"?  
>  
> Does someone have a SX-117 tuning knob with the spinner and calibrated skirt?  
>  
> I think I've found an HT-37 to go with this SX-117. Only need a matched  
> speaker. Any out there?  
>  
> Thanks! Mike, KB9VU  
>  
The usual price for the SX-117/ HT-44 correct combination is about \$250  
to \$350, depending on condition. The dial mechanism of the SX-117 will  
give you fits with backlash.

Hal K4GFI/7 halwaite@netcom.com

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: "S. Miller" <smiller@motown.ge.com>  
Subject: thordasen CHT-3 multismatch info needed  
Message-ID: <199508281940.PAA00532@bear.MOTOWN.GE.COM>

The title says it all-I need the info that tells which taps to use  
for which impedance level. Will be glad to pay xeroxing costs.  
Sorry about the mix-up when I postponed my mail for a few days.  
I had to move my office over the weekend and did not think  
I would be back on-line for several days.  
TIA  
Steve Kd2Ed smiller@motown.ge.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Michael.J.Knudsen@att.com  
Subject: Re: Tube base thread  
Message-ID: <9508281454.AA26843@bock.ih.att.com>

I dug out my one WE "tennis ball" last nite, and it's a 101-D.  
Bakelite base, with UV-type locking pin and short base pins.  
Dual plates and dual ladder grid, and exhaust teet on top.

Looks like a DeForest handmade job, except that the bulb is festooned with patent dates, and the latest is 1926! Sheesh, I ahve RCA superhets older than this tube.

It has a getter one one plate side, which has silvered over most of its side of the spherical bulb. A very pretty tube. I didn't try to light it up.

BTW, in my grad school days in Pittsburgh I still had a BC-32 WW-I CW transceiver. Big wooden box with oatmeal-size coils, and 5 tubes -- 3 little WE jobs in the regen rx, and two tennis-ball/grapefruit globes in the TX. I'd bought it in Boston for \$35 in 1967 and sold it about 1971 for \$150. Probably fetch a grand today. THere's one in the Muchow Museum in Elgin IL. I'd like to borrow mine back long enuf just to look at the tubes. The whole set was Western Electric. If I'd known I was going to end up working for Bell Labs I never wuda sold that set. 73, mike k w9nrd

PS: I also looked at a couple of my brass-based, clear glass, teeted UV-200s and UV-201s (not A). I think someone else already accureately described the UV/UX, 200/201, and A/non-A differences.

Brass or teeted tubes are worth keeping for show even with dead filaments.

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: jmartin@hrlban1.aircrew.asu.edu

Subject: W.E. type 101D continued...

Message-ID: <SA39+dtWEka@hrlban1.alhra.af.mil>

John wrote, then Bob wrote:

>>Probably the most widely used telephone repeater tube of all time, the  
>>venerable 101D was made for around 50 years. I have not been able to  
>>find anything about a 4101DL, however.

---

>Anyone still got any NOS of these babies?

=====

If a person found NOS 101Ds, which certainly is possible, they probably would not be the neat old tennis ball shape. I don't have the '75 years' book handy right now, but if memory serves, I think Western Electric went to an ST-shaped envelope sometime in the 30s. Same characteristics and base, but the spherical shape with the exhaust pip on top was gone, and I think they went to grid and plate elements fully surrounding the filament versus the old 'open edged sandwich' style. Sad, but they took up less room and that's progress. I have a VT-1, VT-2, and 216, all WE-made old style open sandwich, and you can really see that filament when it's glowing!

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: KB9VU@aol.com  
Subject: WA: HT-44  
Message-ID: <950828020227\_85004632@mail06.mail.aol.com>

In addition to the other BA's I posted wants on this week, I'm also looking for a Hallicrafters HT-44. Anyone in the 8, 9 or 0 call area with one for sale or trade?? (Shipping the beast would be cooooostly <grin>)!

Thanks es 73's de Mike, KB9VU

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: Wanted T-R switch  
Message-ID: < Pine.SUN.3.91.950828133236.26280A-100000@crl5.crl.com >

I hv a friend who is in need of a T-R switch for HF. Like the 6c4 and 12au7 tube type designs from the old handbooks. Any ideas ? Homebrew, repairable is ok.

thanks de stan ak0b  
e-mail via randyw@crl.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Bill VanAlstyne <bill@cruz.com>  
Subject: Wanted: 11,500.00 KHz osc xtal for R-390A  
Message-ID: <199508280700.AA20474@cruz.com>

I still have one bad oscillator crystal out of the originl three "deaders" that I haven't been able to round up yet. If anybody has one they'd be willing to part with, or knows of a source to buy a used or surplus one, let me know. Thanks.

Bill VanAlstyne  
N6FN  
bill@cruz.com

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: WE Tube type  
Message-ID: <SA39+0fSEka@hrlban1.alhra.af.mil>

Duncan ON9CHU wrote:

Hmm, don't know about telephone repeater tubes, but I have (or rather my OB has) a Western Electric 4101DL, also looks a bit like the above description, has a brass-sheathed thermoset base, four short pins plus bayonet prong at the side, wide-spaced grid wires either side of a fairly thick tape filament I recall in inverted V configuration, and a vertical plate either side of the assembly.

=====

This may be a version of the widely used 101D repeater. STC (Standard Telephones and Cables, a British company) made the 101D as a 4101D under license. See the book "75 Years of Western Electric Tube Manufacturing", available from AES. Probably the most widely used telephone repeater tube of all time, the venerable 101D was made for around 50 years. I have not been able to find anything about a 4101DL, however.

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995

From: Scott\_Johnson-AZAX60@email.sps.mot.com

Subject: RE>WE Tube type

Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

RE>WE Tube type

8/28/95

Speaking of 101D's, I came across 50+ NOS WE 101D's this weekend. Might be good for regens, as well as audio. Anyone interested?

73, Scott KC7BGE

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995

From: lakeith@wrdis01.robins.af.mil (Larry Keith )

Subject: Western Electric 350B??

Message-ID: <199508281657.LAA23305@wrdis01.robins.af.mil>

Thanks to Himicane Jerry, I stayed home this weekend instead of going to the Madison, GA, hamfest.. So, I started sorting through some of my recent hamfest "tote it home" boxes and discovered several Western Electric 350B tubes. Could not find any data on these.. Can someone give me the application for the these tubes. Are they worth keeping?

73,

Larry, KQ4BY

lakeith@robins.af.mil

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: GALBRAITH CHRISTOPHER <99galbra@lab.cc.wmich.edu>  
Subject: Re: Western Electric 350B??  
Message-ID: <Pine.3.89.9508281446.A10722-0100000@grog>

On Mon, 28 Aug 1995, Larry Keith wrote:

>  
> Thanks to Himicane Jerry, I stayed home this weekend instead of going  
> to the Madison, GA, hamfest.. So, I started sorting through some of my  
> recent hamfest "tote it home" boxes and discovered several Western  
> Electric 350B tubes. Could not find any data on these.. Can someone  
> give me the application for the these tubes. Are they worth keeping?  
>  
> 73,  
>  
> Larry, KQ4BY

Hi Larry,

The 350B is WE's version of the 6L6GB/C. I've been looking for some for  
my audio amp (Harmon Kardon Citation). I've heard they sound very good.

If you'd consider selling them, I'd be very interested. Also, I have  
many tubes (NOS) such as sweep tubes, minis, and rectifiers I could trade  
with.

73, Chris KA8WFC

From boatanchors@theporch.com Mon Aug 28 13:31:00 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: What subs for 5751 and 5726 tubes ?  
Message-ID: <Pine.SUN.3.91.950828070709.21022A@crl2.crl.com>

looking for equivalent tubes to 5751 and 5726. direct subs.

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: pmills@cyberhouse.com (pmills)  
Subject: WTB: B&W 51SB-B sideband adapter  
Message-ID: <199508282309.SAA01010@ns.cyberhouse.com>

I have a B&W 5100-B transmitter that needs the companion sideband adapter....it's the 51SB-B (meter has pointed top...). If anyone has one in fairly decent condition thet they are willing to part with for a reasonable sum, please e-mail me.

Or, if anyone wants the 5100-B, maybe I'll part with it and look for a 5100....

thanks,  
Phil, AB5TH  
pmills@cyberhouse.com  
Phil Mills  
pmills@cyberhouse.com  
713-482-2763

From boatanchors@theporch.com Mon Aug 28 21:02:00 1995  
From: don merz <71333.144@compuserve.com>  
Subject: WTB: BC-34xx parts  
Message-ID: <950828194301\_71333.144\_DHQ35-6@CompuServe.COM>

Wanted

BC-342 front panel parts: handles, dial locks, screw-in cover (1/2" or so) for BFO adjust.  
BC-348K dynamotor and shockmount

Don, N3RHT: 412-234-8819 or here...